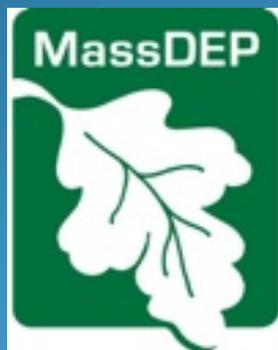


Organics Subcommittee Meeting Slides



John Fischer
May 13, 2019

Meeting Outline

- Organics Action Plan Review
- Generator estimates by sector
- Capacity analysis & need
- Barriers and issues to address

Organics Action Plan Review

- First plan published in 2012
- Most recent update in 2017
- Five categories
 - Data Analysis
 - Reducing Waste and Donating Food
 - Collection Infrastructure
 - Processing Capacity/Market Development
 - Regulatory Reform/Waste Ban

Organics Action Plan

- Propose to develop new strategies by generator size category
 - Large generators currently subject to ban
 - May require further diversion
 - Medium generators subject to modified ban
 - Small businesses and residents

Estimates By Sector

Facility Type	Measurements	1/2 Ton
Assisted Living Facilities	Beds	80
	Employees	110
Colleges and Universities	Students on campus	367
	Students off campus	1,376
Corporate Cafeterias	Meals served	1,600
Correctional Facilities	Inmates	143
Elementary and Secondary Schools	Elementary school students	885
	Middle school students	1,370
	High school students	2,858
Hospitals	Beds	42
	Employees	180
Lodging and Hotels	Guest rooms	151
Restaurants (full-service)	Meals served	1,000
	Employees	18
Restaurants (limited-service)	Meals served	2,000
	Employees	24
Supermarkets and Grocery Stores	Employees	18
Venues and Events	Visitors	2,225

Generation Estimates by Sector (Partial List)

Sector	Employees	Pounds/employee/year	# >1 ton/week	# >1/2 ton/week
Hospitals	180	290	77	158
Nursing Homes and Residential Facilities	110	475	8	39
Full service Restaurants	18	3,000	865	1723
Limited service Restaurants	24	2,200	111	622
Supermarkets	18	3000	468	583
Warehouse Clubs & Supercenters	18	3000	31	31
Hotels	40	1305	137	229
Total			1697	3385

Generation Estimates by Sector

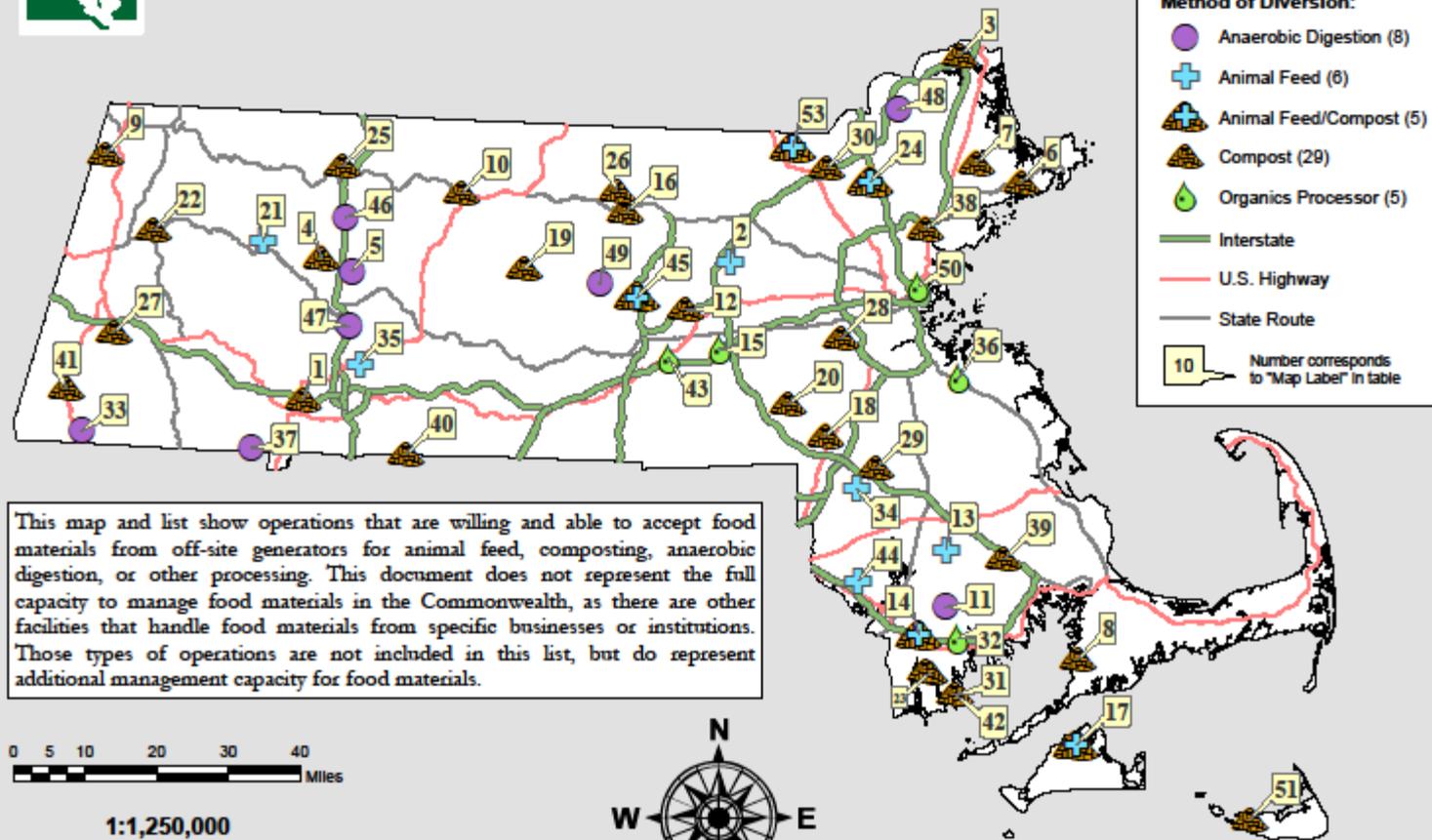
- Does not yet include:
 - Colleges & universities
 - > 367 students on campus
 - > 1,376 students off campus
 - Primary & secondary schools
 - Estimate about 40 subject to lower threshold
 - Food manufacturers, processors & distributors
 - Large venues

Food Waste Reduction Capacity

- Food Donation and Rescue
 - 26,000 tons in 2017
 - >50% growth since 2014
- Food Waste Collection
 - 70% increase from 1,350 customers in 2014 to 2,300 in 2018
- Compost and AD
 - 150k TPY compost capacity
 - >600,000 TPY AD capacity (operational or under development)
 - 7 de-packaging operations, 2 more under development
 - Also growing infrastructure in neighboring states



Sites Accepting Diverted Food Material



DATA SOURCES:

- Major Roads: MassDOT OTP, MassGIS, June 2014
- Food Material Diverters: MassDEP BAW, November 2018

Map Updated November 2018
MassDEP, BAW. J Cook

Capacity Issues

- Need for more distributed capacity
- Able to handle some contamination
- Need for more equipment/capital investment?
- Potential compost facility grant program?
- Recycling Loan Fund – many types of entities subject

Generator Issues

- Multiple paths to compliance
 - Reduction
 - Donation
 - On-site management
 - Off-site management
- Cost-effectiveness
 - Collection and hauling costs
 - Question of overall capacity & distribution
- Increased technical assistance
- Voluntary certification program?

Discussion of Issues & Barriers

- Identify questions and information needs
- What is needed for effective implementation?
- Identify issues & barriers to address
- Frame strategy and approach to support lower ban threshold

Define Next Steps

- Plan next meeting agenda
- Identify follow up information needs

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<https://www.mass.gov/guides/commercial-food-material-disposal-ban>

<https://recyclingworksma.com/how-to/materials-guidance/food-waste-2/>